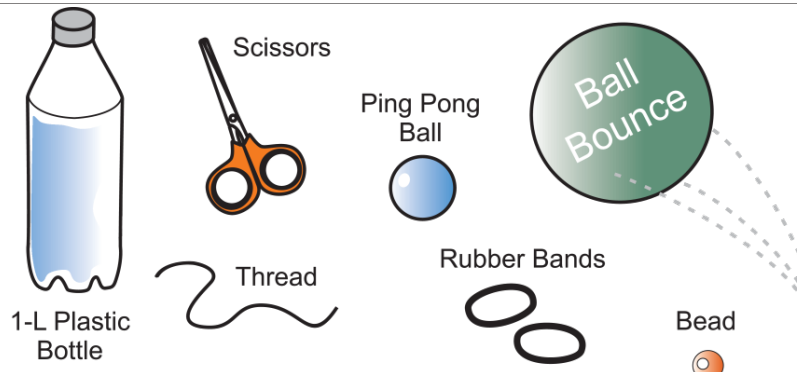


ROCK-PAPER-SCISSORS

Science beyond textbooks

Look around. What do you see? An old ball? A piece of used string?
Discarded waterbottles? Fantastic! Gather such things that you find around home.
With these simple things, have fun doing experiments and discovering science concepts. Today, learn about stored energy and displacement of air

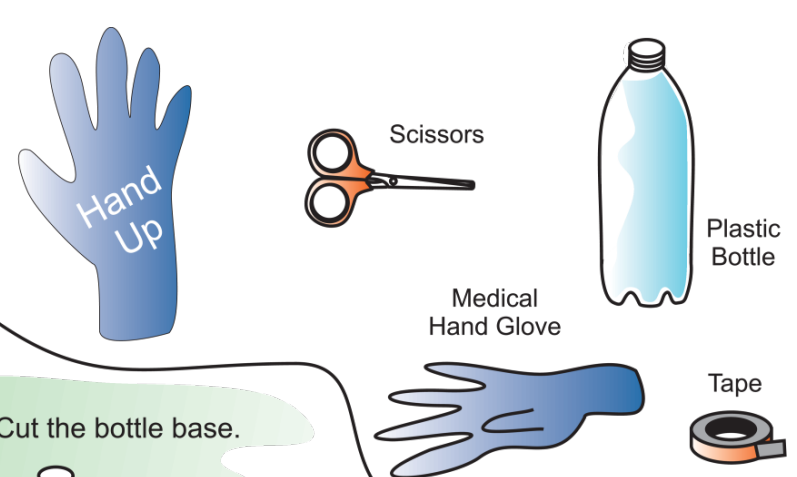


Ball Bounce

- 1 Cut bottle 10-cm from lid. Discard the base.
- 2 Mark four lines at right angles on rim.
- 3 Make 1-cm deep cuts on all four lines.
- 4 Insert two rubber bands in cuts. They will criss-cross in the center.
- 5 Make a small hole in the lid.
- 6 Tie a thread at the junction of the rubber bands and weave it through the hole. Tie a bead at the end of the thread.
- 7 Place the ball on the junction. On pulling the bead and releasing it...

The stored energy in the stretched rubber bands propels the ball.

...the ball will jump up 5-meters !!



Hand Up

- 1 Cut the bottle base.
- 2 Attach a rubber glove on top of the bottle.
- 3 Fix the joint with tape.
- 4 Push the bottle without the base in a bucket full of water.

As you push the bottle down the hand will inflate and stand up!!

Bye! Bye!!

The water entering the bottle displaces air and inflates the rubber glove.